

Notice of Allowability

Application No.

10/674,951

Examiner

John P. Trimmings

Applicant(s)

ARIMA ET AL.

Art Unit

2138

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment dated 1/11/2007 and RCE dated 3/6/2007.
2. ☒ The allowed claim(s) is/are 8-11 renumbered as 1-4.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20070402
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

This office action is in response to the applicant's amendment dated 1/11/2007 and RCE dated 3/6/2007.

Claims 1-7 and 15 were cancelled in a previous amendment.

Claims 12-14 are cancelled in the present amendment dated 1/11/2007.

Claims 8-11 are pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/11/2007 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeff Sakoi on 3/27/2007.

The examiner amends claims 8 and 11 as follows:

Claim 8. An integrated circuit device comprising:

at least one functional module which has a plurality of flip-flops forming a scan chain, wherein the functional module performs a saving operation by outputting data in the flip-flops by a shift operation using the scan chain synchronized with a saving clock signal, and performs a restoring operation by restoring, to the flip-flops, the saved data by a second shift operation using the scan chain synchronized with a restoration clock signal;

a power supply control unit which selects one of the functional modules, and controls stop and resumption of the power supply to the selected functional module;

a clock signal generator which generates [~~a~~] the saving clock signal and restoration clock signal for the functional module selected by the power supply control unit;

a scan controller which, in the saving operation or restoring operation, sets the functional module selected by the power supply control unit to a scan test mode, and selects the saving clock signal or restoration clock signal generated by the clock signal generator as a clock signal to be supplied for the shift operation using scan chain;

a shift register including a plurality of flip-flops wherein the shift register stores the save data output from the functional module selected by the power

supply control unit by the shift operation using the scan chain synchronized with the saving clock signal; and

an error checking and correction unit which performs error checking and correction for the save data stored in the shift register when the save data is to be restored to the flip-flops of the functional module by the second shift operation using the scan chain synchronized with the restoration clock signal, wherein the number of the second shift operations equals the number of the ~~flipflops~~ flip-flops of the functional module.

Claim 11. A device according to claim 8, wherein the error checking and correction unit periodically performs error checking and correction for the save data stored in the shift register while ~~the~~ a third shift operation is performed only in the shift register.

Allowable Subject Matter

3. Claims 8-11 are allowed, and are renumbered as claims 1-4. The following is an examiner's statement of reasons for allowance: The examiner agrees with the applicant's reasons for allowance in the Remarks dated 1/11/2007.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Trimmings whose telephone number is (571) 272-3830. The examiner can normally be reached on Monday through Thursday, 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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